

Title (en)
PLATINUM COMPLEXES WITH ONE RADIOSENSITIZING LIGAND

Publication
EP 0287317 A3 19890208 (EN)

Application
EP 88303258 A 19880412

Priority
US 3749887 A 19870413

Abstract (en)
[origin: EP0287317A2] Complexes of platinum II containing a single radiosensitizer ligand and one or two amino or ammine substituents of the formula: $[PtX_2(NR_2H)L]$ (1) or $[PtX(NR_2H)_2L]^{<+>Y^{<->}}$ (2) wherein X is a monovalent biologically acceptable anion, and in formula (1) both X together can also be a divalent biologically acceptable anion; $Y^{<->}$ is a monovalent biologically acceptable anion; each R is independently H or alkyl, or both Rs together are a piperidino or morpholino residue; and L is a radiosensitizing ligand which is a mononitro-substituted aromatic moiety containing at least one heterocyclic N and/or substituent amine. The compounds show superior binding to DNA and are useful in chemotherapy and sensitization of hypoxic tumors to radiation. The chemotherapeutic value of these compounds is enhanced by administration of vasoactive agents.

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IPC 8 full level
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A61P 35/00 (2017.12 - EP); **C07F 15/0093** (2013.01 - EP US)

Citation (search report)
• [X] EP 0167310 A2 19860108 - JOHNSON MATTHEY PLC [GB]
• [A] GB 2131020 A 19840613 - ADAMS GERALD EDWARD, et al
• [A] GB 2093451 A 19820902 - MAY & BAKER LTD

Cited by
EA010431B1; US6894049B1; EP2181704A2; WO0228871A1; WO9323411A1

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